

The Expedition Series™



The Expedition Series is the lightest, most stable, single-man portable field mast in the world.

Better than Aluminum, the Expedition Series tripod and mast are constructed of **carbon composite material**, making the system:

- **Lighter weight** - easier to transport and deploy
- **Stronger** - more durable - won't bend or break
- **Stiffer** - more stable for payloads

In addition, the Expedition Series mast has the following additional benefits vs. other portable masts:

- **Quicker, easier set-up and retraction** - faster deployment
- **Easier transportability** - two compact transport pack options allow you to select the best one to fit your deployment needs



- 1-2 person transport
- 8-60 ft (2.5-18.3 m)



- 1 person backpack transport
- 8-24 ft (2.5-8 m)

The Expedition Series™

Ranger™ Mast System



The Ranger™ Mast has a large tripod base, making the mast very stable. It is erected with 4 ft (1.2 m) tube sections to heights from 8 to 60 ft (2.5 to 18.3 m).

- Easily transportable by 1-2 people
- Elevates up to 60 ft (18.3 meters)



All components pack into a custom-made, transport bag featuring large, heavy-duty wheels.

Ranger Pack™ Mast System



The Ranger Pack™ is a single man-portable backpack mast system. Incorporating the same stable tripod as the Ranger Mast, the Ranger Pack is designed to fit into a custom-designed backpack. The total system weighs 65 lbs (30 kg) and can be quickly deployed by extending 3 ft (1 m) tube sections to heights from 8 to 24 ft (8 m).

- Easily transportable by 1 person
- Elevates up to 24 ft (8 m)
- Lifts up to 50-lb (23-kg) payload



Single-person backpack is ergonomically balanced and double stitched.

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Special Features

The Will-Burt Expedition Series offers a variety of added features for increased performance and convenience. The system can be deployed **guyed or un-guyed** depending on mission profile. It includes a **6 in (150 mm) diameter payload adapter**. A **custom payload interface** can be designed to fit specific needs. Other key features include:



Large Adjustable Tripod:

Delivers superior stability and allows for level deployment on uneven ground.



Friction Locks:

Permit fast deployment without over-tension.



Ergonomic Tube Lifter:

Facilitates easy payload elevation.



Two Highly Visible Bubble Levels:

Enable easy leveling in seconds.

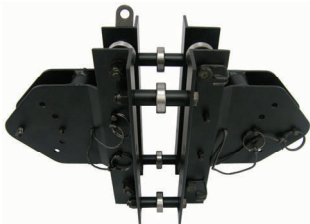
MIL-STD 810G Qualifications

The Expedition Series mast meets the following **MIL-STD 810G** qualifications for dynamics and environmental testing:

- **High Temperature**
Method 501.5 Procedure I & Procedure II, CAT A1
- **Low Temperature**
Method 502.5 Procedure I & Procedure II, COLD C2
- **Dust**
Method 510.5 Procedure I
- **Sand**
Method 510.4 Procedure II
- **Humidity**
Method 507.5
- **Solar Radiation**
Method 505.5, Procedure II
- **Salt Fog**
Method 509.5
- **Transit Drop Shock**
Method 516.6

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Accessories



EZ Raze

Permits the easy elevation of multiple antennas and equipment via winch and cable system.



Bolster Plate

Assists mounting of devices using U or long bolts.



Rigid Guy Collar

Enables guying at top or mid-level of mast.



Dual, Tri & Quad Arm Collar

Helps mounting of 2, 3 or 4 devices to a single mast.
Quad Arm Collar shown.



Swivel 4-Point Guy Collar

Assembly permits azimuth adjustment of masthead without moving guy ropes.



Multi-use Adapter Plate

Supports mounting various bolt patterns.



Cup Holder

Allows mounting of antennas or other devices that have an insulator bar or mounting arm. Accommodates round adapters up to 1.75" OD.



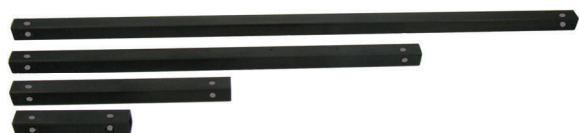
Stub Plate

Aids in mounting payloads at center position on the mast.



NATO Plate

Facilitates mounting of standard NATO VHF whip antennas with a 4-bolt pattern.



Extension Arms

Permit horizontal adjustments of devices to achieve frequency separation and masthead weight balance. Available in 6 in, 12 in, 24 in and 36 in lengths.